

ROSDAMOND LANE

CALIFORNIA GEOLOGICAL SURVEY  
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THE RESOURCES AGENCY-MICHAEL CHRISMAN, SECRETARY  
DEPARTMENT OF CONSERVATION-DARRYL W. YOUNG, DIRECTOR

SEISMIC HAZARD ZONES  
Alpine Butte Quadrangle

ROCKY LAKE SOUTH

34°45'

34°45'

LANCASTER EAST

HIVISTA

PRELIMINARY MAP  
FOR REVIEW PURPOSES ONLY  
TO BE SUPERSEDED ON OR ABOUT  
February 11, 2005

34°37'30"

34°37'30"

PALMDALE

LOVEJOY BUTTES

Base Map prepared by U.S. Geological Survey, 1992.  
Zones of required investigation boundaries may reflect updated digital  
topographic data that can differ significantly from contours shown on the base map.

PURPOSE OF MAP

This map will assist cities and counties in fulfilling their responsibilities for protecting  
the public from the effects of earthquake-triggered ground failure as required  
by the Seismic Hazards Mapping Act (Public Resources Code Sections 2690-2699.6).

For information regarding the general approach and recommended methods for  
preparing this map, see DMG Special Publication 118, *Recommended Criteria  
for Delineating Seismic Hazard Zones in California*.

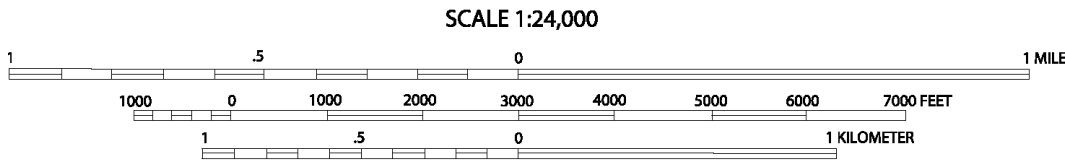
For information regarding the scope and recommended methods to be used in con-  
ducting the required site investigations, see DMG Special Publication 117, *Guidelines  
for Evaluating and Mitigating Seismic Hazards in California*.

For a general description of the Seismic Hazard Mapping Program, the Seismic Hazards  
Mapping Act and regulations, and related information, please refer to the website at  
[www.conservation.ca.gov/cgs/](http://www.conservation.ca.gov/cgs/).

Production of this map was funded by the Federal Emergency Management Agency's  
Hazard Mitigation Program and the Department of Conservation in cooperation with  
the Governor's Office of Emergency Services.

IMPORTANT - PLEASE NOTE

- 1) This map may not show all areas that have the potential for liquefaction, landsliding,  
strong earthquake ground shaking or other earthquake and geologic hazards. Also, a  
single earthquake capable of causing liquefaction or triggering landslide failure will not  
uniformly affect the entire area zoned.
- 2) Liquefaction zones may also contain areas susceptible to the effects of earthquake-  
induced landslides. This situation typically exists at or near the toe of existing landslides,  
downslope from rockfall or debris flow source areas, or adjacent to steep stream banks.
- 3) This map does not show Alquist-Priolo earthquake fault zones, if any, that may exist  
in this area. Please refer to the latest official map of earthquake fault zones for dis-  
closures and other actions that are required by the Alquist-Priolo Earthquake Fault  
Zoning Act. For more information on this subject and an index to available maps, see  
DMG Special Publication 42.
- 4) Landslide zones on this map were determined, in part, by adapting methods originally  
developed by the U.S. Geological Survey (USGS). Landslide hazard maps prepared  
by the USGS typically use experimental approaches to assess earthquake-induced  
and other types of landslide hazards. Although aspects of these new methodologies  
may be incorporated in future California Geological Survey (CGS) seismic hazard  
zone maps, USGS maps should not be used as substitutes for these  
Official SEISMIC HAZARD ZONES maps.
- 5) U.S. Geological Survey base map standards provide that 90 percent of cultural features  
be located within 40 feet (horizontal accuracy) at the scale of this map. The identification  
and location of liquefaction and earthquake-induced landslide zones are based on available  
data. However, the quality of data used is varied. The zone boundaries depicted have been  
drawn as accurately as possible at this scale.
- 6) Information on this map is not sufficient to serve as a substitute for the geologic and  
geotechnical site investigations required under Chapters 7.5 and 7.8 of Division 2 of the  
Public Resources Code.
- 7) **DISCLAIMER:** The State of California and the Department of Conservation make no  
representations or warranties regarding the accuracy of the data from which these maps  
were derived. Neither the State nor the Department shall be liable under any circumstances  
for any direct, indirect, special, incidental or consequential damages with respect to any  
claim by any user or any third party on account of or arising from the use of this map.



STATE OF CALIFORNIA  
SEISMIC HAZARD ZONES

Delineated in compliance with  
Chapter 7.8, Division 2 of the California Public Resources Code  
(Seismic Hazards Mapping Act)

ALPINE BUTTE QUADRANGLE

PRELIMINARY REVISED MAP  
Released: August 11, 2004

SEND TECHNICAL COMMENTS TO:  
State Mining and Geology Board  
801 K Street, MS 24-05  
Sacramento, CA 95814  
COMMENT DEADLINE: November 11, 2004

MAP EXPLANATION

Zones of Required Investigation:

Liquefaction

The seismic hazard evaluation conducted by the California Geological  
Survey indicates low potential for liquefaction within the HI Vista  
7.5-minute Quadrangle. "Zones of Required Investigation" for liquefaction,  
therefore, do not appear on this map. Please refer to Section I of Seismic  
Hazards Zone Report 087 for further details.

Earthquake-Induced Landslides

Areas where previous occurrence of landslide movement, or local  
topographic, geological, geotechnical and subsurface water conditions  
indicate a potential for permanent ground displacements such that  
mitigation as defined in Public Resources Code Section 2693(c) would  
be required.



NOTE:

Seismic Hazard Zones identified on this map may include developed land  
where delineated hazards have already been mitigated to city or county  
standards. Check with your local building/planning department for information  
regarding the location of such mitigated areas.

DATA AND METHODOLOGY USED TO DEVELOP  
THIS MAP ARE PRESENTED IN THE FOLLOWING:

Seismic Hazard Zone Report of the Alpine Butte 7.5-minute Quadrangle, Los Angeles County  
California: California Geological Survey, Seismic Hazard Zone Report 092.

For additional information on seismic hazards in this map area, the rationale used  
for zoning, and additional references consulted, refer to CGS's World Wide Web site

[www.conservation.ca.gov/cgs/](http://www.conservation.ca.gov/cgs/)